## **CLAIMS**

## We claim:

- 1. An isolated polypeptide, comprising (1) an extracellular domain of the transmembrane activator and CAML (calcium-signal modulating cyclophilin ligand) interactor (TACI), and (2) a trimerizing polypeptide.
- 2. A homotrimeric protein complex, comprising the polypeptide of claim 1.
- 3. The isolated polypeptide of claim 1, wherein the TACI extracellular domain is selected from the group consisting of: (1) amino acid residues 30 to 110 of SEQ ID NO:4, (2) amino acid residues 1 to 110 of SEQ ID NO:4, (3) amino acid residues 30 to 154 of SEQ ID NO:4, and (4) amino acid residues 1 to 154 of SEQ ID NO:4.
- . 4. The isolated polypeptide of claim 1, wherein the trimerizing polypeptide comprises the NC-1 fragment of human collagen X.
- 5. The isolated polypeptide of claim 4, wherein the trimerizing polypeptide comprises the amino acid sequence of SEQ ID NO:20.
- 6. The isolated polypeptide of claim 5, wherein the TACI extracellular domain comprises the amino acid residues 30 to 110 of SEQ ID NO: 4.
- 7. A homotrimeric protein complex, comprising the polypeptide of claim 6.
- 8. The isolated polypeptide of claim 1, wherein the trimerizing polypeptide is a trimerizing fragment of Heat Shock Binding Protein-1.
- 9. The isolated polypeptide of claim 8, wherein the trimerizing polypeptide has the amino acid sequence of SEQ ID NO:22.
- 10. The isolated polypeptide of claim 9, wherein the TACI extracellular domain comprises the amino acid residues 30 to 110 of SEQ ID NO: 4.
- 11. A homotrimeric protein complex, comprising the polypeptide of claim 10.

12. An expression vector comprising the following operably linked elements:

a transcription promoter; the nucleic acid sequence encoding the polypeptide of claim 1 and a transcription terminator.

- 13. A cultured cell into which has been introduced the expression vector of claim 12, wherein said cell expresses said polypeptide.
- 14. A method of producing a homotrimeric protein complex comprising the steps of culturing the cell of claim 13 and recovering the homotrimeric protein complex comprising said polypeptide.
- 15. A method of inhibiting TNF4-induced B cell proliferation comprising exposing said B cells to a homotrimeric protein complex comprising a polypeptide, said polypeptide comprising (1) a TACI extracellular domain and (2) a trimerizing polypeptide.
- 16. The method of claim 15 wherein said homotrimeric complex comprises the amino acid sequence of SEQ ID NO:20 and the TACI extracellular domain comprising amino acid residues 30 to 110 of SEQ ID NO: 4.
- 17. The method of claim 15 wherein said homotrimeric complex comprises the amino acid sequence of SEQ ID NO:22 and the TACI extracellular domain comprising amino acid residues 30 to 110 of SEQ ID NO: 4.